International application No.

CLASSIFICATION OF SUBJECT MATTER

IPC7 C12N 15/63

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean patents and applications since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKIPASS, Delphion, NCBI PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
P, X	P, X WO 2004/108937 A1 (BIOLEADERS CORPORATION) 16 December 2004 (2004-12-16) See the whole document.		
. A	WO 2003/014360 A1 (BIOLEADERS CORPORATION) 20 February 2003 (2003-02-20) See the whole document.	1-20	
···A·	MAKOTO ASHIUCHI, ET. AL. "A Poly- γ -glutamate Synthetic System of Bacillus subtilis IFO3336: Gene Cloning and Biochemical Analysis of Poly- γ -glutamate Produced by Escherichia coli Clone Cells." In: Biochem. Biophysic. Res. Commun., (Sep. 2001) Vol.263(1):6-12, see the whole document.	1-20	
A	G. HOBORN, ET. AL. "OmpA fusion proteins for presentation of foreign antigens on the bacterial outer membrane." In: Dev. Biol. Stand., (1995) Vol.84:255-62, see the whole document.	1-20	
A	A. CHARBIT, ET. AL. "Expression of a poliovirus neutralization epitope at the surface of recombinant bacteria: first immunization results." In: Ann. Inst. Pasteur Microbiol., (JanFeb. 1988) Vol.139(1):45-58, see the whole document.	1-20	
Α	J. COTE-SIERRA, ET. AL. "A new membrane-bound Oprl lipoprotein expression vector. High production of heterologous fusion proteins in gran(-)bacteria and the implications for oral vaccination." In: Gene, (Oct. 1998) Vol.221(1):25-34, see the whole document.	1-20	

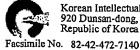
H	Further documents	are listed in	the continuation	of Box C.
	Limitates appeniations s	me nateu m	uic commutation	OI DOX U

See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search Date of mailing of the international search report 16 MAY 2005 (16.05.2005) 20 MAY 2005 (20.05.2005)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Telephone No. 82-42-481-5026

AHN, Kyu Jeong

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.

	PCT/KR2005/000356
Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sh	neet)
With regard to any nucleotide and/or amino acid sequence disclosed in the international applic invention, the international search was carried out on the basis of:	ation and necessary to the claimed
a. type of material a sequence listing table(s) related to the sequence listing	
	•
b. format of material in written format in computer readable form	
ç. time of filing/furnishing	
contained in the international application as filed filed together with the international application in computer readable form	
furnished subsequently to this Authority for the purposes of search	•
2. In addition, in the case that more than one version or copy of a sequence listing and/or to or furnished, the required statements that the information in the subsequent or additional application as filed or does not go beyond the application as filed, as appropriate, were fi	copies is identical to that in the
3. Additional comments:	
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2005/000356

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004/108937 A1	15.12.2004	None	
WO 2003/014360 A1	20.02.2003	US 20040253704 A1 JP 2005500054 T2 EP 1421195 A1	16.12.2004 06.01.2005 26.05.2004